Field Investigation Suspected Yellow Fever Epidemic



When Informed of Suspected Yellow Fever Cases

- Review reports of suspected cases
 - do they meet the case definition?
 - are they clinically consistent with YF?
- Alert nearby health facilities
 - have they seen cases?
 - remind them of clinical presentation and case definitions
- Send an Investigation Team to the field
- Inform the province when there are patients who meet the case definition

Members of the Investigation Team

- Clinician and / or epidemiologist
- Entomologist or hygienist with mosquito training
- Microbiologist or technician from reference laboratory
- Driver, community representatives, interpreters, general helpers

Investigation Team Duties-1

- Verify the reported YF cases
- Investigate new cases to establish the diagnosis
- Obtain laboratory specimens
- Get and analyze information about cases
- Make control recommendations
- Report findings

Investigation Team Duties -2

- Assess the local ability to respond:
 - are cases being managed properly?
 - are there enough supplies and staff to take care of the ill? (trained health workers, IV fluids, mosquito bed nets, etc.)
 - can they reduce vector populations and breeding sites?
 - can they conduct / cooperate with the vaccination campaign?

Surveillance Case Definitions

- SUSPECTED CASE =
 - Sudden onset of fever, followed by jaundice and one or more:
 - bleeding in the mouth
 - black vomitus
 - death
- CONFIRMED CASE =
 - Suspected case and
 - virus isolation from blood or liver OR
 - positive neutralization or IgM capture

Suspect Possible Yellow Fever

- Fever with scleral icterus or
- Fever with scleral icterus in a patient with a negative malaria smear.
- This is an additional case definition that may be used during epidemics (not mandatory)
- Less strict definition produces a more accurate case count in epidemics

Locate Cases on a Map

- Show the location of:
 - -cases, by date of onset, if possible
 - -health facilities
 - -roads and transport
- Show location of forested areas, and known location of vectors, if possible

Laboratory Confirmation of Yellow Fever

- Not routine for most laboratories
- Identify a reference laboratory in the country

and / or

- Arrange for laboratory support with the WHO country or Regional Representative
- Control of YF demands extraordinary resources which may not be given until laboratory confirmation is obtained.

Person

Place

Time

Person

- How many cases and deaths?
- What is the case fatality rate?
- What are the age-specific and sex-specific attack rates?
- What groups are at highest risk?

Place

- Where are cases occurring?
- Is the outbreak spreading to new areas?
 - Are there accessible health facilities in the affected areas?
- Show location of cases on maps
 - helps follow progress of disease
 - helps plan vaccination campaign

Time

- When did cases and deaths occur?
- Is the number of cases increasing or decreasing?
- Make graphs showing the number of cases over time